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2 **In the Claims**

3 Claims 1-17 and 22-46 are canceled without prejudice. Claims 47-52 are
4 added. Claims 18-21 are amended. Claims 18-21 and 47-52 are pending in the
5 application and listed below:
6

7 **1 -17. (CANCELED)**
8

9 **18. (CURRENTLY AMENDED) A facial image-processing The**
10 **method of ~~claim 17~~ comprising:**

11 illuminating a face with multiple different light sources, wherein at least
12 one of the light sources is polarized;

13 measuring range map data from said illuminating;

14 measuring image data from said illuminating;

15 deriving a 3-dimensional surface from the range map data;

16 computing surface normals to the 3-dimensional surface; and

17 processing the surface normals and the image data to derive an albedo map.
18

19 **19. (CURRENTLY AMENDED) A facial image-processing The**
20 **method of ~~claim 17~~ comprising:**

21 illuminating a face with multiple different light sources, wherein all of the
22 light sources are polarized;

23 measuring range map data from said illuminating;

24 measuring image data from said illuminating;

25 deriving a 3-dimensional surface from the range map data;

computing surface normals to the 3-dimensional surface; and

1 processing the surface normals and the image data to derive an albedo map.

2
3 **20. (CURRENTLY AMENDED) A facial image-processing** The
4 ~~method of claim 17 further~~ comprising:

5 illuminating a face with multiple different light sources;

6 measuring range map data from said illuminating;

7 ~~after said measuring of the range map data,~~ applying a generic face
8 template to the range map data to reject noise that is associated with the range map
9 data;

10 measuring image data from said illuminating;

11 deriving a 3-dimensional surface from the range map data;

12 computing surface normals to the 3-dimensional surface; and

13 processing the surface normals and the image data to derive an albedo map.

14
15 **21. (CURRENTLY AMENDED) A facial image-processing** The
16 ~~method of claim 17 further~~ comprising:

17 illuminating a face with multiple different light sources;

18 measuring range map data from said illuminating;

19 measuring image data from said illuminating;

20 ~~prior to deriving the 3-dimensional surface,~~ filtering the range map data;

21 deriving a 3-dimensional surface from the range map data;

22 computing surface normals to the 3-dimensional surface; and

23 processing the surface normals and the image data to derive an albedo map.

24
25 **22 - 46. (CANCELED)**

1 **47. (NEW)** The method of claim 18, wherein at least one of the light
2 sources is infrared.

3
4 **48. (NEW)** One or more computer-readable media having computer-
5 readable instructions thereon which, when executed by a computer, implement the
6 method of claim 18.

7
8 **49. (NEW)** The method of claim 18, wherein the light sources are at
9 different frequencies.

10
11 **50. (NEW)** One or more computer-readable media having computer-
12 readable instructions thereon which, when executed by a computer, implement the
13 method of claim 19.

14
15 **51. (NEW)** One or more computer-readable media having computer-
16 readable instructions thereon which, when executed by a computer, implement the
17 method of claim 20.

18
19 **52. (NEW)** One or more computer-readable media having computer-
20 readable instructions thereon which, when executed by a computer, implement the
21 method of claim 21.